

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1454	548/517.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 14:28
L2	819	lactor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 14:28
L3	1876	lactol	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 14:28
L4	18	l1 and l3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 14:28

=>
Uploading C:\Program Files\Stnexp\Queries\10563459-broad.str

L1 STRUCTURE UPLOADED

=> d his

(FILE 'HOME' ENTERED AT 14:24:15 ON 30 JAN 2008)

FILE 'REGISTRY' ENTERED AT 14:24:23 ON 30 JAN 2008

L1 STRUCTURE UPLOADED
L2 0 S L1
L3 1795381 S NC4/ES
L4 731680 S OC5/ES
L5 14238 S L3 AND L4
L6 0 S L1 SAM SUB=L5
L7 1 S L1 SSS FULL SUB=L5

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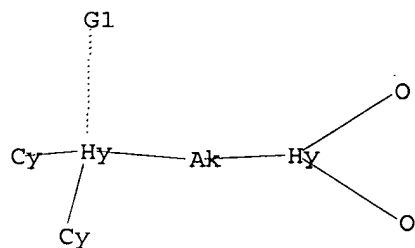
L8 1 S L7

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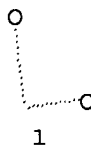
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L1 HAS NO ANSWERS

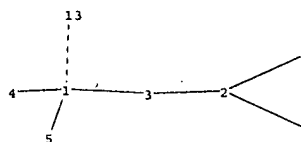
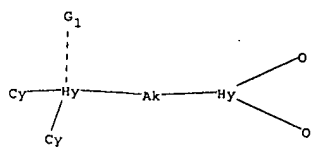
L1 STR



G1 N, [01]



Structure attributes must be viewed using STN Express query preparation.



chain nodes :

1 2 3 4 5 6 7 8 9 10 13

chain bonds :

1-3 1-4 1-5 1-13 2-3 2-6 2-7 8-9 8-10

exact/norm bonds :

1-3 1-4 1-5 1-13 2-3 2-6 2-7 8-9 8-10

G1:N, [*1]

Connectivity :

3:2 E exact RC ring/chain

Match level :

1:Atom 2:Atom 3:CLASS 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS
13:CLASS

Generic attributes :

1:

Saturation : Unsaturated

Number of Carbon Atoms : less than 7

Number of Hetero Atoms : Exactly 1

Type of Ring System : Monocyclic

2:

Saturation : Saturated

Number of Carbon Atoms : less than 7

Type of Ring System : Monocyclic

3:

Saturation : Saturated

Element Count :

Node 1: Limited

N,N1

C,C4

Node 2: Limited

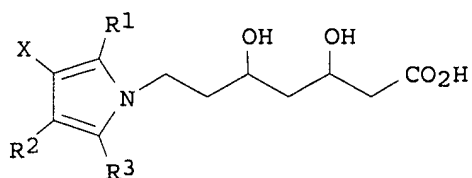
C,C5

O,O1

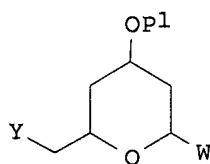
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L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:120881 CAPLUS
DN 142:219082
TI Process for the preparation of statins, particularly atorvastatin, and
useful intermediate compounds
IN Moody, David John; Wiffen, Jonathan William
PA Avecia Limited, UK
SO PCT Int. Appl., 22 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

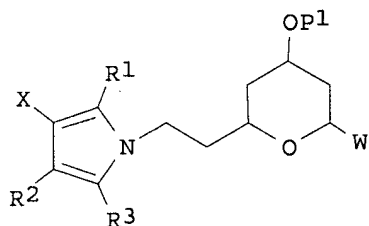
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2005012246	A1	20050210	WO 2004-GB3206	20040723
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2004261468	A1	20050210	AU 2004-261468	20040723
	CA 2530163	A1	20050210	CA 2004-2530163	20040723
	EP 1648866	A1	20060426	EP 2004-767938	20040723
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	CN 1829688	A	20060906	CN 2004-80021382	20040723
	BR 2004012786	A	20060926	BR 2004-12786	20040723
	JP 2006528655	T	20061221	JP 2006-521652	20040723
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	NO 2006000903	A	20050126	NO 2006-903	20060224
	US 2007043221	A1	20070222	US 2006-563459	20060710
PRAI	GB 2003-17393	A	20030725		
	GB 2004-6760	A	20040326		
	WO 2004-GB3206	W	20040723		
OS	CASREACT 142:219082; MARPAT 142:219082				
GI					



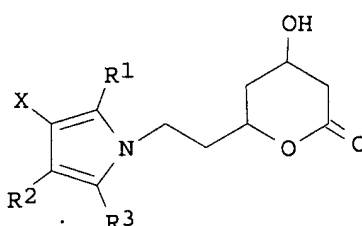
I



II



III



IV

AB There is provided a process for the preparation of a compound I [R1, R3 = H, hydrocarbonyl; R2 = H, substituent; X = H, substituent] or salts thereof, which comprises: (a) cyanating pyran II [Y = halo (preferably Cl or Br); P1 = H, protecting group; W = :O or OP2; P2 = H, protecting group] to give pyran II (Y = CN); (b) reducing pyran II (Y = CN) to give amine pyran II (Y = CH2NH2); (c) coupling II (Y = CH2NH2) with dicarbonyl compound, R1COCHXCHR2COR3 to give pyranol III; (d) when W = OP2, deprotecting and then oxidizing III to give pyranone IV; and (e) subjecting III [W = O] or IV to ring-opening, and removal of any remaining protecting groups, to give pyrrole I. Thus, lipitor, the calcium salt of atorvastatin [I; R1 = CHMe2, R2 = Ph, R3 = C6H4F-4, X = CONHPh], was prepared from 6-(chloromethyl)tetrahydropyran-2,4-diol via methanolysis to the methylacetal, O-benzylation with PhCH2Br in THF containing NaH, cyanation with KCN in DMSO, reduction with borane-THF complex, cyclocondensation with 4-FC6H4COCHPhCH(COCHMe2)CO2Et in THF containing MeCO2H, hydrogenolysis in MeOH containing catalytic Pd/C, hydrolysis with HCl in aqueous MeOH to the lipitor lactone, Dess-Martin oxidation to the lipitor lactone, and saponification with Ca(OH)2.

IT 840528-11-2P

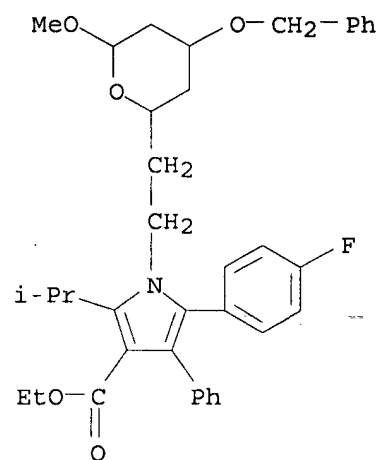
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and amidation of, with aniline; preparation of statins, particularly

atorvastatin, and useful intermediates)

RN 840528-11-2 CAPLUS

CN 1H-Pyrrole-3-carboxylic acid, 5-(4-fluorophenyl)-2-(1-methylethyl)-4-phenyl-1-[2-[tetrahydro-6-methoxy-4-(phenylmethoxy)-2H-pyran-2-yl]ethyl]-, ethyl ester (CA INDEX NAME)



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L1 STRUCTURE UPLOADED

=>

Uploading C:\Program Files\Stnexp\Queries\10563459-elected-narrow.str

L10 STRUCTURE UPLOADED

FILE 'REGISTRY' ENTERED AT 10:09:51 ON 31 JAN 2008
L1 STRUCTURE UPLOADED
L2 2 S L1
L3 40 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 10:10:24 ON 31 JAN 2008
L4 96 S L3

FILE 'REGISTRY' ENTERED AT 10:10:31 ON 31 JAN 2008

FILE 'STNGUIDE' ENTERED AT 10:11:14 ON 31 JAN 2008

FILE 'REGISTRY' ENTERED AT 10:13:14 ON 31 JAN 2008
L5 SCREEN 1842
L6 SCREEN 1843
L7 2 S L1 AND L5 NOT L6 SAM
L8 28 S L1 AND L5 NOT L6 SSS FULL

FILE 'CAPLUS' ENTERED AT 10:13:47 ON 31 JAN 2008
L9 92 S L8

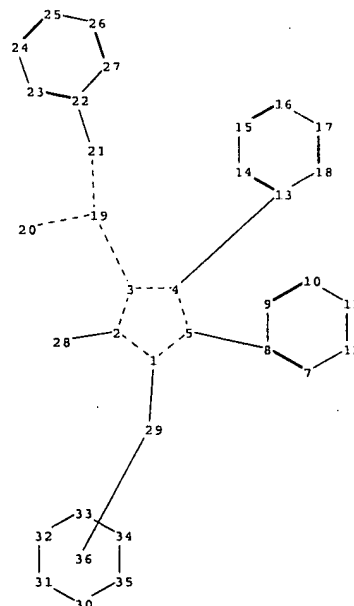
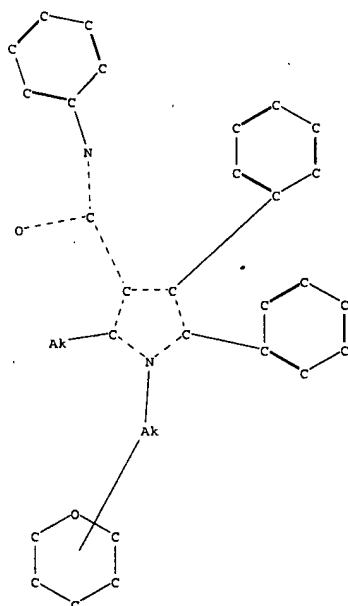
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FILE 'REGISTRY' ENTERED AT 10:14:00 ON 31 JAN 2008

FILE 'STNGUIDE' ENTERED AT 10:14:28 ON 31 JAN 2008

FILE 'REGISTRY' ENTERED AT 10:15:39 ON 31 JAN 2008
L10 STRUCTURE UPLOADED
L11 0 S L10 SAM SUB=L8
L12 5 S L10 SSS FULL SUB=L8

FILE 'CAPLUS' ENTERED AT 10:16:24 ON 31 JAN 2008
L13 2 S L12



chain nodes :

19 20 21 28 29

ring nodes :

1 2 3 4 5 7 8 9 10 11 12 13 14 15 16 17 18 22 23 24 25 26 27 30
31 32 33 34 35

chain bonds :

1-29 2-28 3-19 4-13 5-8 19-20 19-21 21-22

ring bonds :

1-2 1-5 2-3 3-4 4-5 7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-18 14-15 15-16
16-17 17-18 22-23 22-27 23-24 24-25 25-26 26-27 30-31 30-35 31-32 32-33
33-34 34-35

exact/norm bonds :

1-2 1-5 1-29 2-3 2-28 3-4 3-19 4-5 4-13 5-8 19-20 19-21 21-22 30-31 30-35
31-32 32-33 33-34 34-35

normalized bonds :

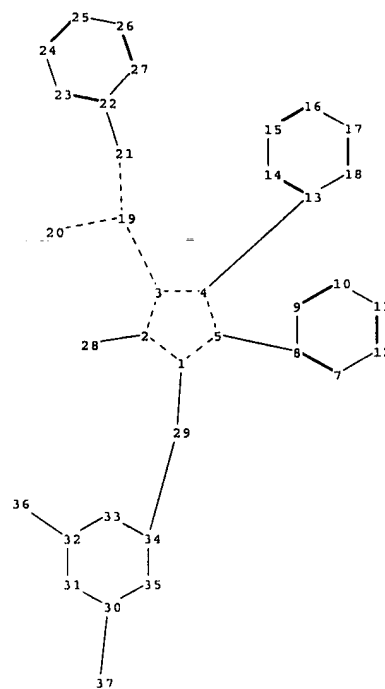
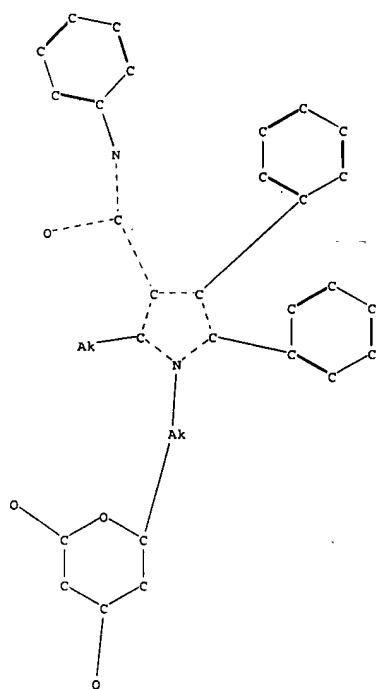
7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-18 14-15 15-16 16-17 17-18 22-23
22-27 23-24 24-25 25-26 26-27

isolated ring systems :

containing 1 : 7 : 13 : 22 : 30 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS 20:CLASS
21:CLASS 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:CLASS 29:CLASS
30:Atom 31:Atom 32:Atom 33:Atom 34:Atom 35:Atom 36:Atom



chain nodes :

19 20 21 28 29 36 37

ring nodes :

1 2 3 4 5 7 8 9 10 11 12 13 14 15 16 17 18 22 23 24 25 26 27 30
31 32 33 34 35

chain bonds :

1-29 2-28 3-19 4-13 5-8 19-20 19-21 21-22 29-34 30-37 32-36

ring bonds :

1-2 1-5 2-3 3-4 4-5 7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-18 14-15 15-16
16-17 17-18 22-23 22-27 23-24 24-25 25-26 26-27 30-31 30-35 31-32 32-33
33-34 34-35

exact/norm bonds :

1-2 1-5 1-29 2-3 2-28 3-4 3-19 4-5 4-13 5-8 19-20 19-21 21-22 29-34 30-31
30-35 30-37 31-32 32-33 32-36 33-34 34-35

normalized bonds :

7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-18 14-15 15-16 16-17 17-18 22-23
22-27 23-24 24-25 25-26 26-27

isolated ring systems :

containing 1 : 7 : 13 : 22 : 30 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS 20:CLASS
21:CLASS 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:CLASS 29:CLASS
30:Atom 31:Atom 32:Atom 33:Atom 34:Atom 35:Atom 36:CLASS 37:CLASS

=> d l13 tot bib abs

L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:1052509 CAPLUS
DN 147:385764
TI Process for preparing C7 intermediates and their use in the preparation of
N-substituted pyrrole derivatives
IN Korostylev, Andrei; Tararov, Vitali; Boerner, Armin; Koenig, Gerd; Bobal,
Pavel; Frantisek, Jaroslav; Stohandl, Jiri; Denike, Kane; Jeker, Nicolas
PA Ratiopharm GmbH, Germany
SO Eur. Pat. Appl., 56pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1834944	A1	20070919	EP 2006-5510	20060317
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU				
	WO 2007107276	A2	20070927	WO 2007-EP2245	20070314
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRAI EP 2006-5510 A 20060317

OS MARPAT 147:385764

AB The present invention relates to a process for preparing C7 intermediates and
their use in the preparation of pyrrole derivs. of a class that is effective at
inhibiting the biosynthesis of cholesterol in humans, and more
particularly to improved synthetic methods for preparing 3,5-dihydroxy-7-
pyrrol-1-ylheptanoic acids. Thus, Et 5,5-dimethoxy-3-oxopentanoate was
hydrogenated with Ru(R)-BINAP)Cl₂ in MeOH to give (R)-Et
5,5-dimethoxy-3-hydroxypentanoate with 97.8% ee.

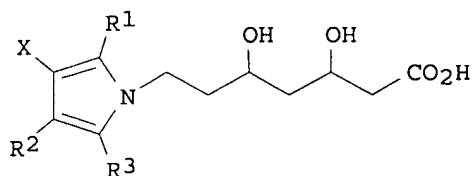
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:120881 CAPLUS
DN 142:219082
TI Process for the preparation of statins, particularly atorvastatin, and
useful intermediate compounds
IN Moody, David John; Wiffen, Jonathan William
PA Avecia Limited, UK
SO PCT Int. Appl., 22 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

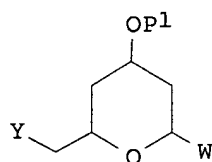
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005012246	A1	20050210	WO 2004-GB3206	20040723
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,				

GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

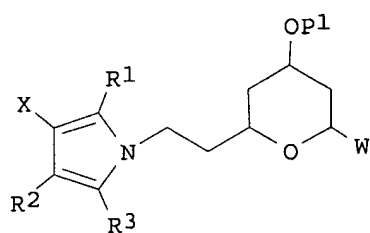
AU 2004261468	A1	20050210	AU 2004-261468	20040723
CA 2530163	A1	20050210	CA 2004-2530163	20040723
EP 1648866	A1	20060426	EP 2004-767938	20040723
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN 1829688	A	20060906	CN 2004-80021382	20040723
BR 2004012786	A	20060926	BR 2004-12786	20040723
JP 2006528655	T	20061221	JP 2006-521652	20040723
MX 2006PA00926	A	20060907	MX 2006-PA926	20060124
NO 2006000903	A	20050126	NO 2006-903	20060224
US 2007043221	A1	20070222	US 2006-563459	20060710
PRAI GB 2003-17393	A	20030725		
GB 2004-6760	A	20040326		
WO 2004-GB3206	W	20040723		
OS CASREACT 142:219082; MARPAT 142:219082				
GI				



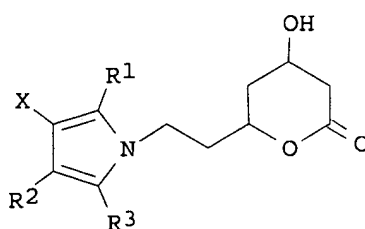
I



II



III



IV

AB There is provided a process for the preparation of a compound I [R1, R3 = H, hydrocarbyl; R2 = H, substituent; X = H, substituent] or salts thereof, which comprises: (a) cyanating pyran II [Y = halo (preferably Cl or Br); P1 = H, protecting group; W = :O or OP2; P2 = H, protecting group] to give pyran II (Y = CN); (b) reducing pyran II (Y = CN) to give amine pyran II (Y = CH2NH2); (c) coupling II (Y = CH2NH2) with dicarbonyl compound, R1COCHXCHR2COR3 to give pyranol III; (d) when W = OP2, deprotecting and then oxidizing III to give pyranone IV; and (e) subjecting III [W = O] or IV to ring-opening, and removal of any remaining protecting groups, to give pyrrole I. Thus, lipitor, the calcium salt of atorvastatin [I; R1 =

CHMe2, R2 = Ph, R3 = C6H4F-4, X = CONHPh], was prepared from 6-(chloromethyl)tetrahydropyran-2,4-diol via methanolysis to the methylacetal, O-benylation with PhCH2Br in THF containing NaH, cyanation with KCN in DMSO, reduction with borane-THF complex, cyclocondensation with 4-FC6H4COCHPhCH(COCHMe2)CO2Et in THF containing MeCO2H, hydrogenolysis in MeOH containing catalytic Pd/C, hydrolysis with HCl in aqueous MeOH to the lipitor lactone, Dess-Martin oxidation to the lipitor lactone, and saponification with Ca(OH)2.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L4 STRUCTURE UPLOADED

=>

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L5 STRUCTURE UPLOADED

FILE 'REGISTRY' ENTERED AT 12:22:42 ON 31 JAN 2008
L4 STRUCTURE UPLOADED
L5 STRUCTURE UPLOADED
L6 50 S L4
L7 483280 S L4 SSS FULL
L8 2 S L5
L9 40 S L5 SSS FULL

FILE 'CAPLUS' ENTERED AT 12:24:02 ON 31 JAN 2008

FILE 'REGISTRY' ENTERED AT 12:24:18 ON 31 JAN 2008

FILE 'REGISTRY' ENTERED AT 12:24:43 ON 31 JAN 2008

FILE 'REGISTRY' ENTERED AT 12:25:08 ON 31 JAN 2008

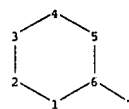
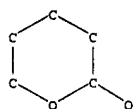
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L10 SCREEN 1838
L11 SCREEN 1839
L12 50 S L4 AND L10 NOT L11
L13 64431 S L4 AND L10 NOT L11 SSS FULL

FILE 'CAPLUS' ENTERED AT 12:26:59 ON 31 JAN 2008

=> s l13
L14 142518 L13

=> s l9
L15 96 L9

=> s l14 and l15
L16 3 L14 AND L15



chain nodes :

7

ring nodes :

1 2 3 4 5 6

chain bonds :

6-7

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

6-7

exact bonds :

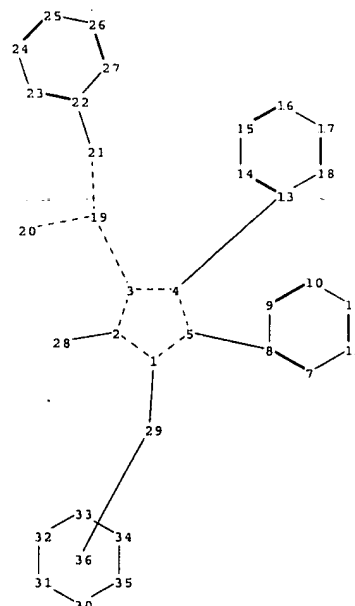
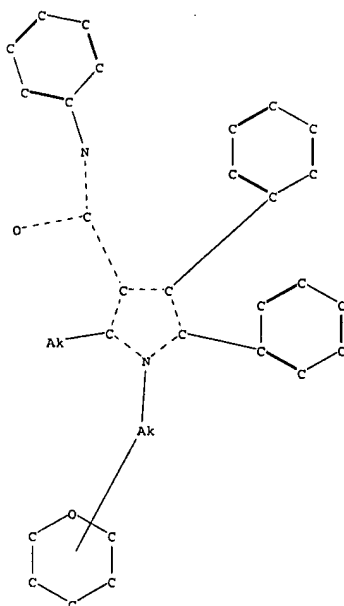
1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS



chain nodes :

19 20 21 28 29

ring nodes :

1 2 3 4 5 7 8 9 10 11 12 13 14 15 16 17 18 22 23 24 25 26 27 30
31 32 33 34 35

chain bonds :

1-29 2-28 3-19 4-13 5-8 19-20 19-21 21-22

ring bonds :

1-2 1-5 2-3 3-4 4-5 7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-18 14-15 15-16
16-17 17-18 22-23 22-27 23-24 24-25 25-26 26-27 30-31 30-35 31-32 32-33
33-34 34-35

exact/norm bonds :

1-2 1-5 1-29 2-3 2-28 3-4 3-19 4-5 4-13 5-8 19-20 19-21 21-22 30-31 30-35
31-32 32-33 33-34 34-35

normalized bonds :

7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-18 14-15 15-16 16-17 17-18 22-23
22-27 23-24 24-25 25-26 26-27

isolated ring systems :

containing 1 : 7 : 13 : 22 : 30 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS 20:CLASS
21:CLASS 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:CLASS 29:CLASS
30:Atom 31:Atom 32:Atom 33:Atom 34:Atom 35:Atom 36:Atom

L16 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:999457 CAPLUS
 DN 147:308266
 TI Stable non-crystalline oral pharmaceutical formulation comprising HMG-CoA reductase inhibitor such as atorvastatin
 IN Palepu, Nageshwara; Kordikowski, Andreas; Zhang, Jiang; Duddu, Sarma; Lechuga, David; Kuo, Mei Chang
 PA Scidose, LLC, USA
 SO PCT Int. Appl., 103pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007100614	A2	20070907	WO 2007-US4629	20070220
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	RW:				
	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRAI US 2006-776525P P 20060224

OS MARPAT 147:308266

AB One or more embodiments of the present invention relate to a formulation comprising an HMG-CoA reductase inhibitor, to co-formulations of HMG-CoA reductase inhibitors with excipients, to methods for preparing the formulations, pharmaceutical compns. comprising the formulations and to their use in medical treatment. Also provided are stable oral pharmaceutical formulations comprising HMG-CoA reductase inhibitors such as atorvastatin, an associated methods for their preparation and use of (administering) the stable oral pharmaceutical formulations and co-formulations. The formulations which result in desired, especially improved or enhanced, solubility or dissoln. characteristics, resulting in desired, especially improved or enhanced, bioavailability and/or pharmacokinetics. Thus, coformulation of atorvastatin calcium with an excipient, hydroxypropylcellulose, was prepared by mixing 80 g hydroxypropyl cellulose and 720 g atorvastatin calcium in methanol, with solvent removal using CO2 as antisolvent.

IT 125995-03-1, Atorvastatin lactone

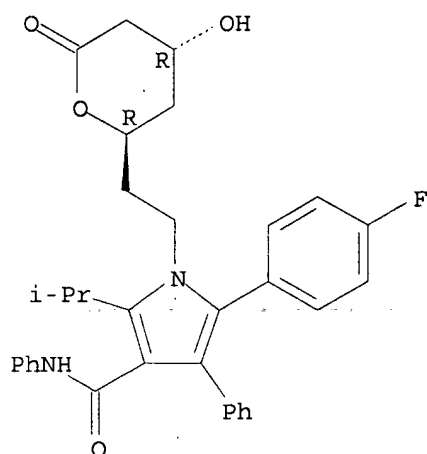
RL: RCT (Reactant); RACT (Reactant or reagent)

(stable non-crystalline oral pharmaceutical formulation comprising HMG-CoA reductase inhibitor such as atorvastatin)

RN 125995-03-1 CAPLUS

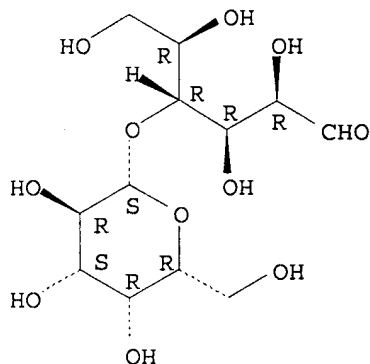
CN 1H-Pyrrole-3-carboxamide, 5-(4-fluorophenyl)-2-(1-methylethyl)-N,4-diphenyl-1-[2-[(2R,4R)-tetrahydro-4-hydroxy-6-oxo-2H-pyran-2-yl]ethyl]- (CA INDEX NAME)

Absolute stereochemistry.



IT 64044-51-5, Pharmatose 200M
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (stable non-crystalline oral pharmaceutical formulation comprising HMG-CoA
 reductase inhibitor such as atorvastatin)
 RN 64044-51-5 CAPLUS
 CN D-Glucose, 4-O- β -D-galactopyranosyl-, hydrate (1:1) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



● H₂O

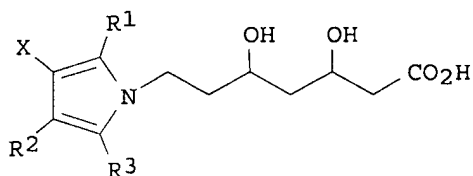
L16 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2005:120881 CAPLUS
 DN 142:219082
 TI Process for the preparation of statins, particularly atorvastatin, and
 useful intermediate compounds
 IN Moody, David John; Wiffen, Jonathan William
 PA Avecia Limited, UK
 SO PCT Int. Appl., 22 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005012246	A1	20050210	WO 2004-GB3206	20040723
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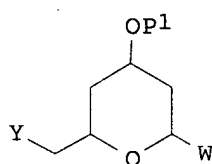
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 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2004261468	A1	20050210	AU 2004-261468	20040723
CA 2530163	A1	20050210	CA 2004-2530163	20040723
EP 1648866	A1	20060426	EP 2004-767938	20040723
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN 1829688	A	20060906	CN 2004-80021382	20040723
BR 2004012786	A	20060926	BR 2004-12786	20040723
JP 2006528655	T	20061221	JP 2006-521652	20040723
MX 2006PA00926	A	20060907	MX 2006-PA926	20060124
NO 2006000903	A	20050126	NO 2006-903	20060224
US 2007043221	A1	20070222	US 2006-563459	20060710
PRAI GB 2003-17393	A	20030725		
GB 2004-6760	A	20040326		
WO 2004-GB3206	W	20040723		

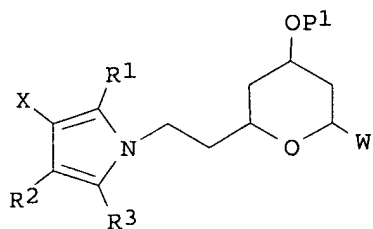
OS CASREACT 142:219082; MARPAT 142:219082
 GI



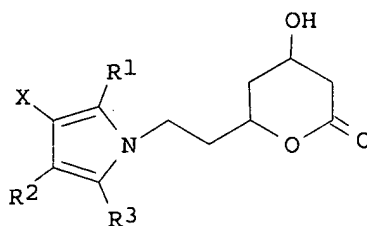
I



II



III



IV

AB There is provided a process for the preparation of a compound I [R1, R3 = H, hydrocarbyl; R2 = H, substituent; X = H, substituent] or salts thereof, which comprises: (a) cyanating pyran II [Y = halo (preferably Cl or Br); P1 = H, protecting group; W = :O or OP2; P2 = H, protecting group] to give pyran II (Y = CN); (b) reducing pyran II (Y = CN) to give amine pyran II (Y = CH2NH2); (c) coupling II (Y = CH2NH2) with dicarbonyl compound, R1COCHXCHR2COR3 to give pyranol III; (d) when W = OP2, deprotecting and then oxidizing III to give pyranone IV; and (e) subjecting III [W = O] or IV to ring-opening, and removal of any remaining protecting groups, to give pyrrole I. Thus, lipitor, the calcium salt of atorvastatin [I; R1 = CHMe2, R2 = Ph, R3 = C6H4F-4, X = CONHPh], was prepared from 6-(chloromethyl)tetrahydropyran-2,4-diol via methanolysis to the

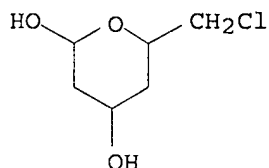
methylacetal, O-benylation with PhCH₂Br in THF containing NaH, cyanation with KCN in DMSO, reduction with borane-THF complex, cyclocondensation with 4-FC₆H₄COCHPhCH(COCHMe₂)CO₂Et in THF containing MeCO₂H, hydrogenolysis in MeOH containing catalytic Pd/C, hydrolysis with HCl in aqueous MeOH to the lipitor lactone, Dess-Martin oxidation to the lipitor lactone, and saponification with Ca(OH)₂.

IT 159223-55-9

RL: RCT (Reactant); RACT (Reactant or reagent)
(methanolysis of; preparation of statins, particularly atorvastatin, and useful intermediates)

RN 159223-55-9 CAPLUS

CN 2H-Pyran-2,4-diol, 6-(chloromethyl)tetrahydro- (CA INDEX NAME)

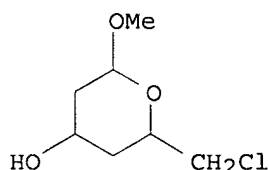


IT 840528-03-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and O-benylation of; preparation of statins, particularly atorvastatin, and useful intermediates)

RN 840528-03-2 CAPLUS

CN 2H-Pyran-4-ol, 2-(chloromethyl)tetrahydro-6-methoxy- (CA INDEX NAME)

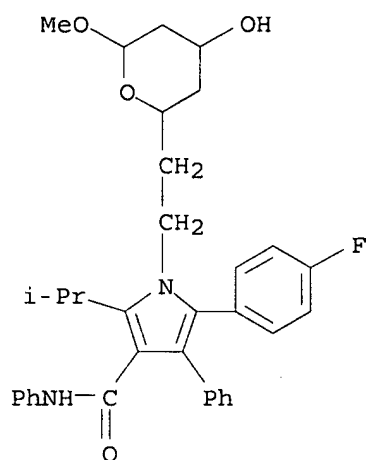


IT 840528-15-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and acid hydrolysis of; preparation of statins, particularly atorvastatin, and useful intermediates)

RN 840528-15-6 CAPLUS

CN 1H-Pyrrole-3-carboxamide, 5-(4-fluorophenyl)-2-(1-methylethyl)-N,4-diphenyl-1-[2-(tetrahydro-4-hydroxy-6-methoxy-2H-pyran-2-yl)ethyl]- (CA INDEX NAME)



IT 840528-23-6P

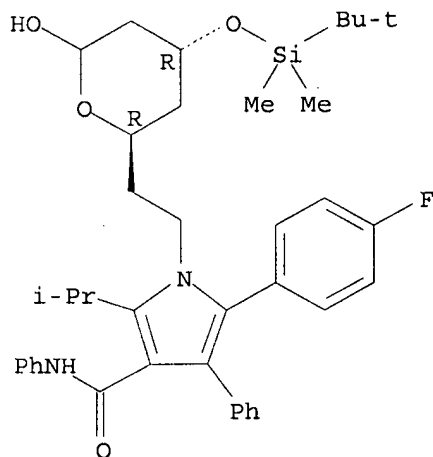
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and desilylation of; preparation of statins, particularly atorvastatin, and useful intermediates)

RN 840528-23-6 CAPLUS

CN 1H-Pyrrole-3-carboxamide, 1-[2-[(2R,4R)-4-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]tetrahydro-6-hydroxy-2H-pyran-2-yl]ethyl]-5-(4-fluorophenyl)-2-(1-methylethyl)-N,4-diphenyl- (CA INDEX NAME)

Absolute stereochemistry.



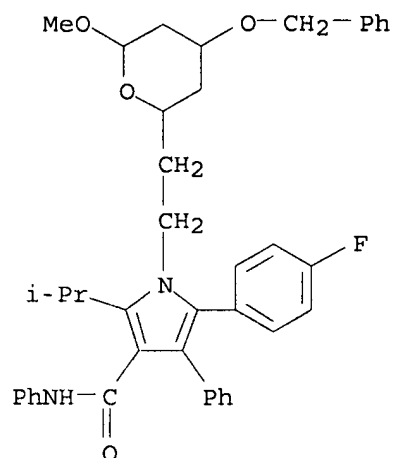
IT 840528-13-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and hydrogenolytic debenzylation of; preparation of statins, particularly atorvastatin, and useful intermediates)

RN 840528-13-4 CAPLUS

CN 1H-Pyrrole-3-carboxamide, 5-(4-fluorophenyl)-2-(1-methylethyl)-N,4-diphenyl-1-[2-[tetrahydro-6-methoxy-4-(phenylmethoxy)-2H-pyran-2-yl]ethyl]- (CA INDEX NAME)



IT 842162-99-6P

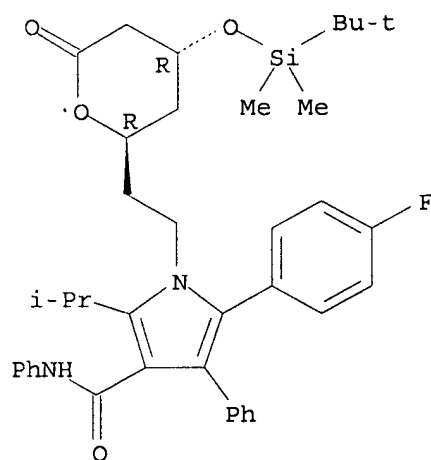
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reduction of; preparation of statins, particularly atorvastatin, and useful intermediates)

RN 842162-99-6 CAPLUS

CN 1H-Pyrrole-3-carboxamide, 1-[2-[(2R,4R)-4-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]tetrahydro-6-oxo-2H-pyran-2-yl]ethyl]-5-(4-fluorophenyl)-2-(1-methylethyl)-N,4-diphenyl- (CA INDEX NAME)

Absolute stereochemistry.



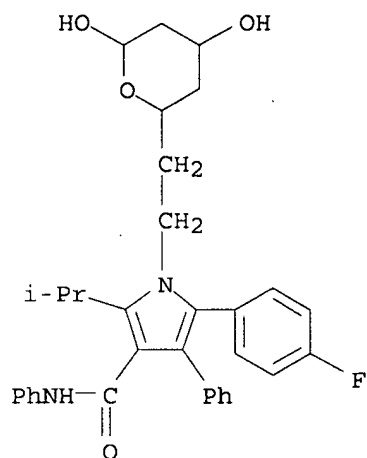
IT 840528-17-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and regioselective oxidation of, with Dess-Martin reagent; preparation of statins, particularly atorvastatin, and useful intermediates)

RN 840528-17-8 CAPLUS

CN 1H-Pyrrole-3-carboxamide, 5-(4-fluorophenyl)-2-(1-methylethyl)-N,4-diphenyl-1-[2-(tetrahydro-4,6-dihydroxy-2H-pyran-2-yl)ethyl]- (CA INDEX NAME)



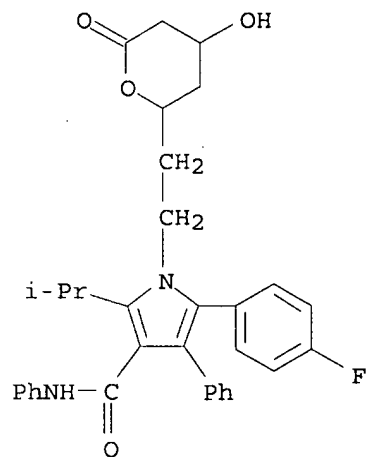
IT 160449-60-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and silylation or saponification of, with calcium hydroxide; preparation of statins, particularly atorvastatin, and useful intermediates)

RN 160449-60-5 CAPLUS

CN 1H-Pyrrole-3-carboxamide, 5-(4-fluorophenyl)-2-(1-methylethyl)-N,4-diphenyl-1-[2-((2R,4R)-tetrahydro-4-hydroxy-6-oxo-2H-pyran-2-yl)ethyl]- (CA INDEX NAME)



IT 125995-03-1

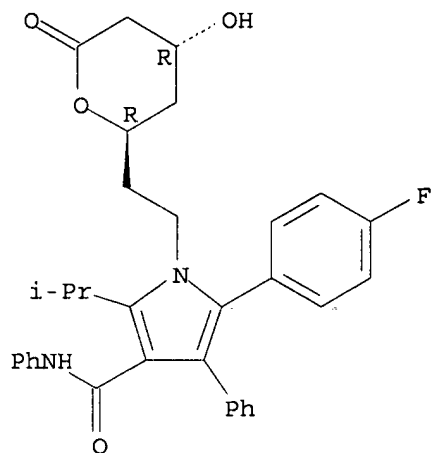
RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of statins, particularly atorvastatin, and useful intermediates)

RN 125995-03-1 CAPLUS

CN 1H-Pyrrole-3-carboxamide, 5-(4-fluorophenyl)-2-(1-methylethyl)-N,4-diphenyl-1-[2-((2R,4R)-tetrahydro-4-hydroxy-6-oxo-2H-pyran-2-yl)ethyl]- (CA INDEX NAME)

Absolute stereochemistry.



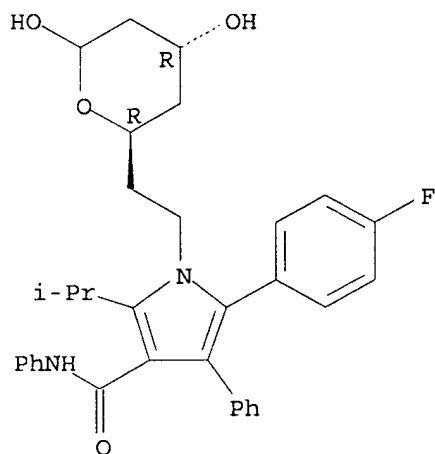
IT 842163-03-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of statins, particularly atorvastatin, and useful intermediates)

RN 842163-03-5 CAPLUS

CN 1H-Pyrrole-3-carboxamide, 5-(4-fluorophenyl)-2-(1-methylethyl)-N,4-diphenyl-1-[2-[(2R,4R)-tetrahydro-4,6-dihydroxy-2H-pyran-2-yl]ethyl]- (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2004:1080531 CAPLUS

DN 142:62698

TI Pharmaceutical compositions of atorvastatin

IN Luner, Paul E.; Waterman, Kenneth Craig

PA Warner-Lambert LLC, USA

SO U.S. Pat. Appl. Publ., 17 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 2004253305	A1	20041216	US 2004-828398	20040420

US 2005032880	A1	20050210	US 2004-828488	20040420
CA 2465640	A1	20041212	CA 2004-2465640	20040429
CA 2465693	A1	20041212	CA 2004-2465693	20040429
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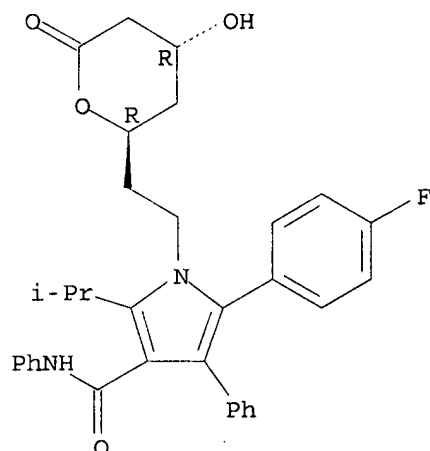
AB The invention describes a dry-granulated pharmaceutical composition comprising atorvastatin or a pharmaceutically acceptable salt thereof, as well as a dry-granulated pharmaceutical composition comprising atorvastatin or a pharmaceutically acceptable salt thereof in combination with at least one other active drug, methods for preparing said compns., kits for containing such compns., and a method of treating hypercholesterolemia and/or hyperlipidemia, osteoporosis, benign prostatic hyperplasia (BPH), and Alzheimer's disease using a therapeutically effective amount of the pharmaceutical composition. For example, atorvastatin tablets were prepared by

a wet granulation of a composition containing 2.59 g of spray dried amorphous atorvastatin, 78.00 g of microcryst. cellulose, 101.41 g of lactose, 6.00 g of croscarmellose sodium (Ac-Di-Sol), and 4.000 g of hydroxypropyl cellulose (Klucel EXF). To 175.0 g of the dried granules was added 5.469 g of Ac-Di-Sol followed by 1.822 g of magnesium stearate and the mixture was compressed to give .apprx.250 tablets. After storage of tablets for 4 wk

at 40° and 75% relative humidity, the level of atorvastatin lactone was 25.4%.

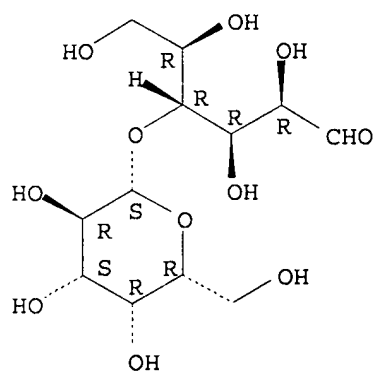
IT 125995-03-1, Atorvastatin lactone
 RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative)
 (preparation and stability of atorvastatin granulations, tablets and capsules)
 RN 125995-03-1 CAPLUS
 CN 1H-Pyrrole-3-carboxamide, 5-(4-fluorophenyl)-2-(1-methylethyl)-N,4-diphenyl-1-[2-[(2R,4R)-tetrahydro-4-hydroxy-6-oxo-2H-pyran-2-yl]ethyl]-(CA INDEX NAME)

Absolute stereochemistry.



IT 63-42-3, Lactose
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (preparation and stability of atorvastatin granulations, tablets and capsules)
 RN 63-42-3 CAPLUS
 CN D-Glucose, 4-O-β-D-galactopyranosyl- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



=> fil stng

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
16.83	708.36

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION

CA SUBSCRIBER PRICE

-2.40

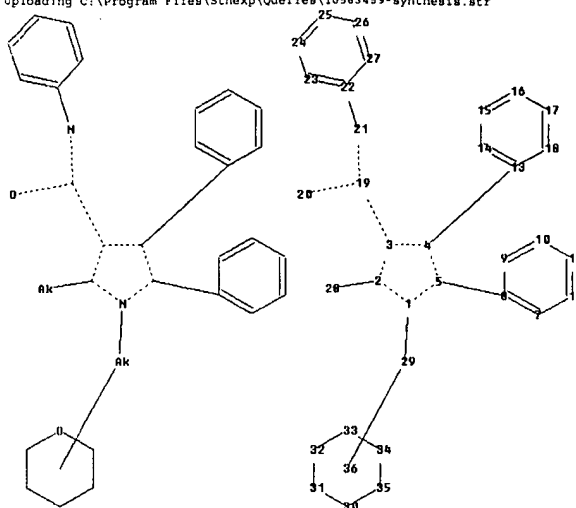
-3.15

FILE 'STNGUIDE' ENTERED AT 12:27:52 ON 31 JAN 2008
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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Jan 25, 2008 (20080125/UP).

=> Uploading C:\Program Files\Stnexp\Queries\10563459-synthesis.str



chain nodes :
19 20 21 28 29
ring nodes :
1 2 3 4 5 7 8 9 10 11 12 13 14 15 16 17 18 22 23 24 25 26 27
30 31 32 33 34 35
chain bonds :
1-29 2-28 3-19 4-13 5-8 19-20 19-21 21-22
ring bonds :
1-2 1-5 2-3 3-4 4-5 7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-18 14-15
15-16 16-17 17-18 22-23 22-27 23-24 24-25 25-26 26-27 30-31 30-35 31-32
32-33 33-34
34-35
exact/norm bonds :
1-2 1-5 1-29 2-3 2-28 3-4 3-19 4-5 4-13 5-8 19-20 19-21 21-22 30-31
30-35 31-32 32-33 33-34 34-35
normalized bonds :
7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-18 14-15 15-16 16-17 17-18 22-23
22-27 23-24 24-25 25-26 26-27
isolated ring systems :
containing 1 : 7 : 13 : 22 : 30 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS 20:CLASS
21:CLASS 22:Atom
23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:CLASS 29:CLASS 30:Atom 31:Atom
32:Atom 33:Atom
34:Atom 35:Atom 36:Atom
fragments assigned product role:
containing 1

L1 STRUCTURE UPLOADED

=> s 11
SAMPLE SEARCH INITIATED 10:57:06 FILE 'CASREACT'
SCREENING COMPLETE - 24 REACTIONS TO VERIFY FROM 6 DOCUMENTS
100.0% DONE 24 VERIFIED 3 HIT RXNS 1 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED VERIFICATIONS: 187 TO 773
PROJECTED ANSWERS: 1 TO 79

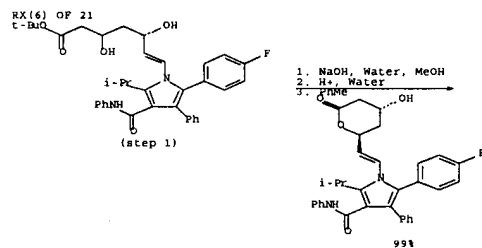
L2 1 SEA SSS SAM L1 (3 REACTIONS)

=> s 11 sss full
FULL SEARCH INITIATED 10:57:11 FILE 'CASREACT'
SCREENING COMPLETE - 604 REACTIONS TO VERIFY FROM 59 DOCUMENTS
100.0% DONE 604 VERIFIED 76 HIT RXNS 11 DOCS
SEARCH TIME: 00.00.01

L3 11 SEA SSS FUL L1 (76 REACTIONS)

d 13 tot

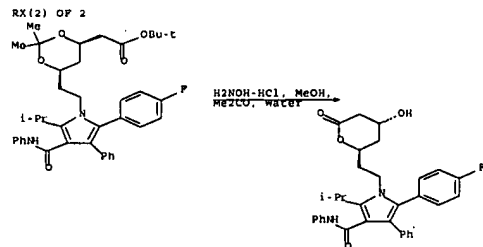
L3 ANSWER 1 OF 11 CASREACT COPYRIGHT 2008 ACS on STN



REF: Mex. Pat. Appl., 2006PA12407, 17 Jan 2006

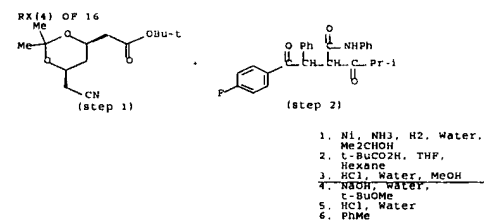
COM: STAGE(2) pH 3.8, 8 hours, 80 deg c

L3 ANSWER 2 OF 11 CASREACT COPYRIGHT 2008 ACS on STN

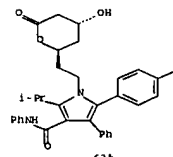


REF: PCT Int. Appl., 2007028412, 15 Mar 2007
COM: STAGE(1) room temperature -> 67 deg C, 1 hour, 67 deg C

L3 ANSWER 3 OF 11 CASREACT COPYRIGHT 2008 ACS on STN



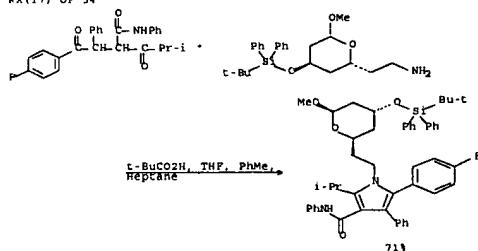
RX(4) OF 16



REF: PCT Int. Appl., 2007028412, 15 Mar 2007
NOTE: Wet sponge nickel catalyst was used in first stage
COM: STAGE(2) 96 hours, room temperature -> 75 deg C
STAGE(3) 30 deg C
STAGE(4) 30 deg C
STAGE(5) 4 hours, reflux

L3 ANSWER 4 OF 11 CASREACT COPYRIGHT 2008 ACS on STN

RX(17) OF 54

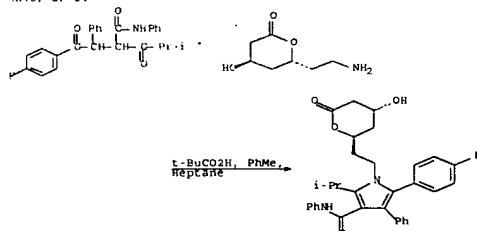


REF: European Journal of Organic Chemistry, (24), 5543-5550, 2008

CON: STAGE(1) 10 hours, reflux; cooled

L3 ANSWER 5 OF 11 CASREACT COPYRIGHT 2008 ACS on STN

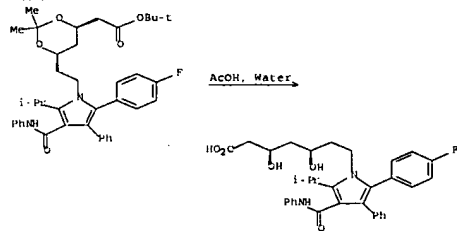
RX(18) OF 24



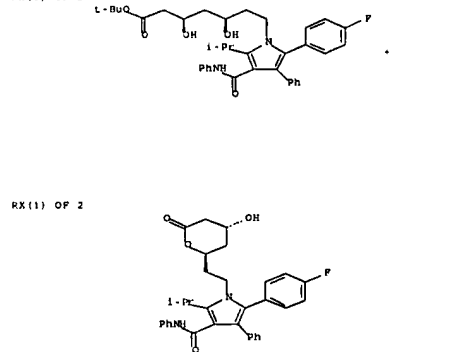
REF: PCT Int. Appl., 2006134482, 21 Dec 2006

CON: 24 hours, 110 deg C

RX(1) OF 2



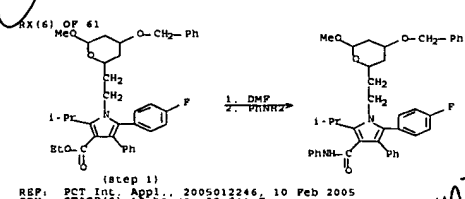
RX(1) OF 2



REF: PCT Int. Appl., 2002043667, 06 Jun 2002

L3 ANSWER 9 OF 11 CASREACT COPYRIGHT 2008 ACS on STN

L3 ANSWER 6 OF 11 CASREACT COPYRIGHT 2008 ACS on STN



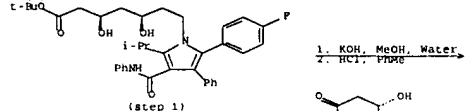
REF: PCT Int. Appl., 2005012246, 10 Feb 2005

CON: STAGE(2) 18 hours, 80 deg C

instant

L3 ANSWER 7 OF 11 CASREACT COPYRIGHT 2008 ACS on STN

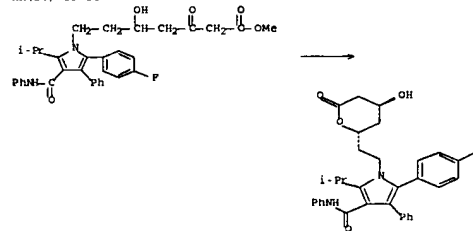
RX(3) OF 5



REF: PCT Int. Appl., 2004014896, 19 Feb 2004

L3 ANSWER 8 OF 11 CASREACT COPYRIGHT 2008 ACS on STN

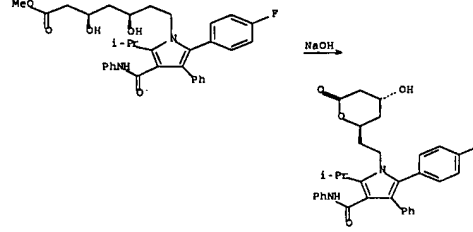
RX(14) OF 56



REF: Journal of Medicinal Chemistry, 34(1), 357-66, 1991

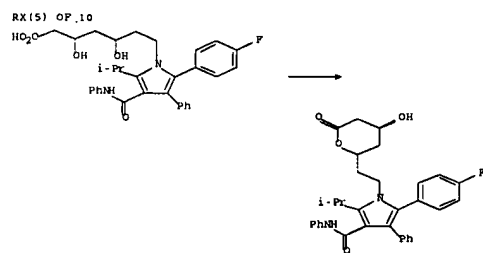
L3 ANSWER 10 OF 11 CASREACT COPYRIGHT 2008 ACS on STN

RX(10) OF 62



REF: PCT Int. Appl., 8907598, 24 Aug 1989

L3 ANSWER 11 OF 11 CASREACT COPYRIGHT 2008 ACS on STN



REF: U.S., 4601893, 21 Jul 1987

=> fil stng

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

150.52

150.73

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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Jan 25, 2008 (20080125/UP).

=> log hold

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.06

150.79

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 10:58:17 ON 31 JAN 2008